

Title (en)

Promoters exhibiting endothelial cell specificity and methods of using same

Title (de)

Endothelzellspezifität zeigende Promotoren und Verfahren zu deren Verwendung

Title (fr)

Promoteurs présentant une spécificité pour des cellules endothéliales et leurs procédés d'utilisation

Publication

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Application

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Abstract (en)

The present invention concerns an isolated polynucleotide comprising: (a) a promoter functional in endothelial cells; (b) a regulatory element comprising at least one copy of the sequence set forth in SEQ ID NO:6 operably linked to said promoter, and (c) a nucleic acid sequence of interest under regulatory control of said regulatory element.

IPC 8 full level

A61K 48/00 (2006.01); **C12N 15/09** (2006.01); **A61K 31/7088** (2006.01); **A61K 45/06** (2006.01); **A61P 9/00** (2006.01); **A61P 17/00** (2006.01); **A61P 35/00** (2006.01); **A61P 43/00** (2006.01); **C07K 14/475** (2006.01); **C07K 14/515** (2006.01); **C07K 14/575** (2006.01); **C12N 5/10** (2006.01); **C12N 15/85** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

- [X] BU X ET AL: "Identification of an endothelial cell-specific regulatory region in the murine endothelin-1 gene", JOURNAL OF BIOLOGICAL CHEMISTRY, THE AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, INC, US, vol. 272, no. 51, 19 December 1997 (1997-12-19), pages 32613 - 32622, XP002980773, ISSN: 0021-9258, DOI: 10.1074/JBC.272.51.32613
- [A] MINCHENKO ALEXANDER ET AL: "Regulation of endothelin-1 gene expression in human microvascular endothelial cells by hypoxia and cobalt: Role of hypoxia responsive element", MOLECULAR AND CELLULAR BIOCHEMISTRY, vol. 208, no. 1-2, May 2000 (2000-05-01), pages 53 - 62, XP002305520, ISSN: 0300-8177
- [A] SUN GUO ET AL: "Functional analysis of the preproendothelin-1 gene promoter in pulmonary epithelial cells and monocytes", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 221, no. 3, 1996, pages 647 - 652, XP002305521, ISSN: 0006-291X

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